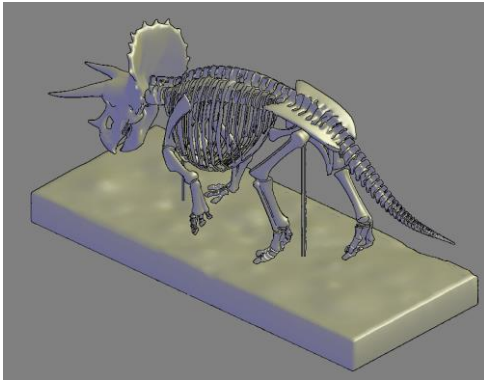


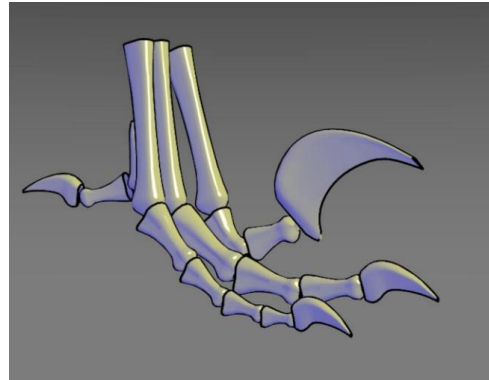
# Weekly report (2013.7.8 ~7.14)

## Done

- 1) Write the Chinese draft and conclude my work, I've finished a first edition and discussed with Prof. Zhang. The draft is far from a paper and it's not well constructed. Prof. Zhang suggested that I should first add more details of my work into the draft, then remove those unnecessary contents, and finally reconstruct the whole draft. I'm modifying the draft according to those suggests.
- 2) Add a simple NPR effect into the web application, referring to the paper "A Non-Photorealistic Lighting Model For Automatic Technical Illustration". Result is shown below:



a) my implementation



b) from the reference

- 3) Finish reading the paper "Equalizer: A Scalable Parallel Rendering Framework", according to the paper and the corresponding open-source project, it seems this framework can fulfill our needs in the Meteorology Project. So, I let Wang Tianye make a try to use this framework, to see if feasible. If Equalizer doesn't work, we may come back to continue Sikan's framework. As to my tasks, after discussed with Haidong, it'll mainly focus on the per-processing jobs (e.g. iso-surface, iso-line and streamline), some of them can be done using hadoop, while others using MPI.

## To Do

- 1) Modify the Chinese draft.
- 2) Try to grasp the algorithms used in pre-processing and try to make it parallel.